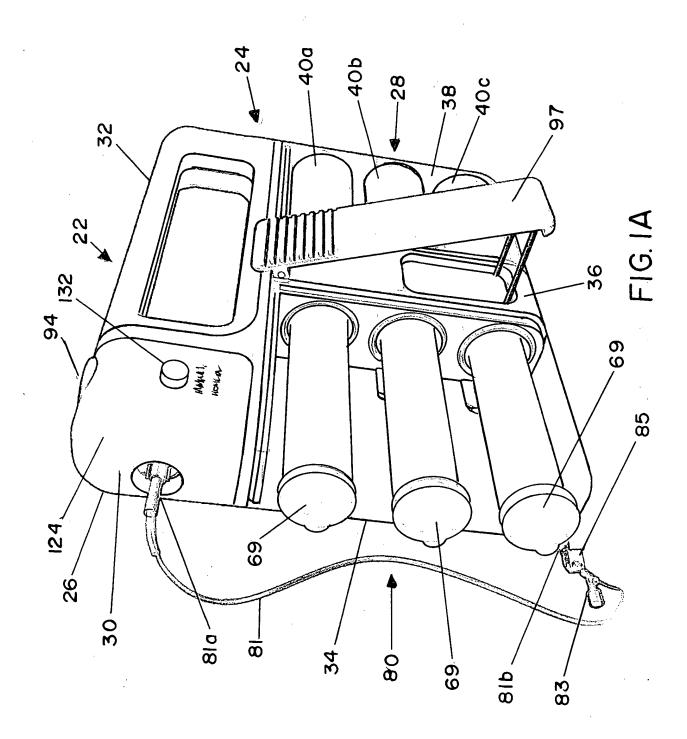
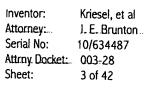
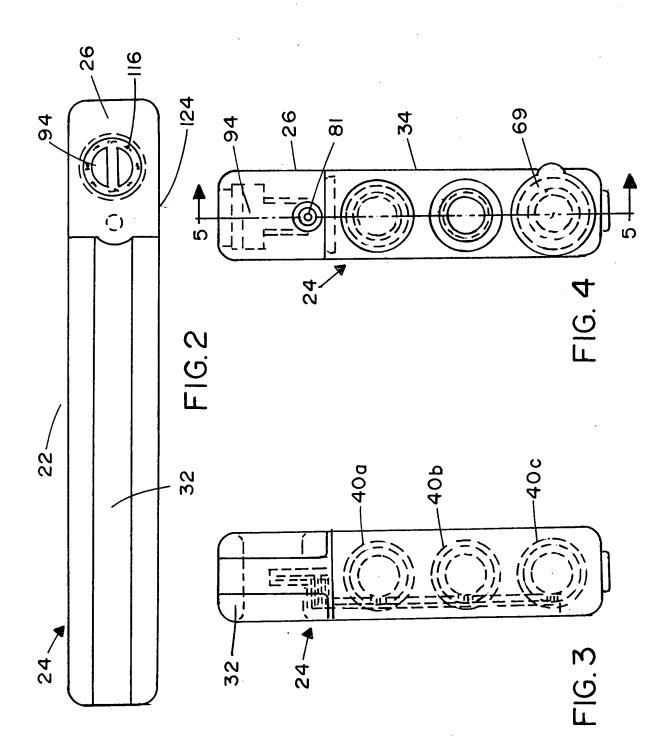


Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 2 of 42







Inventor: Kriesel, et al. Attorney: J. E. Brunton Serial No: 10/634487. Attrny Docket: 003-28 Sheet: 4 of 42...

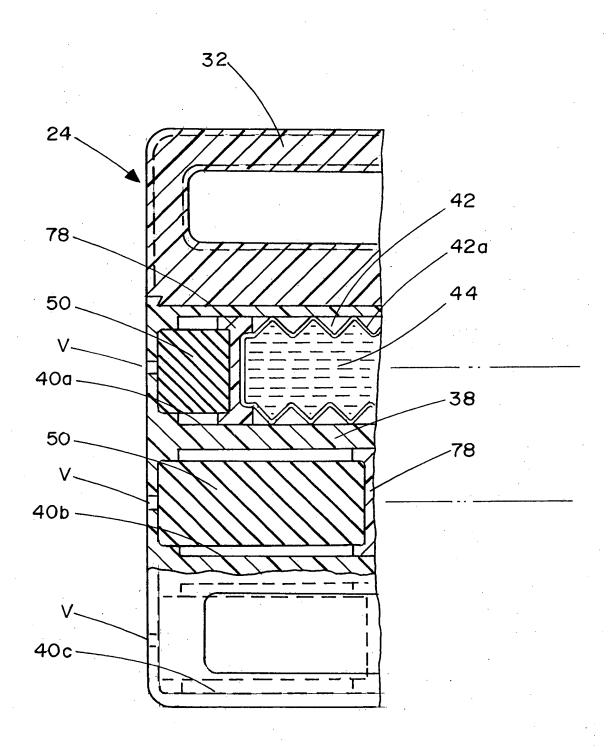


FIG.5A

Inventor: Kriesel, et al Attorney: J. E. Brunton. Serial No: 10/634487 Attrny Docket: 003-28. Sheet: 5 of 42

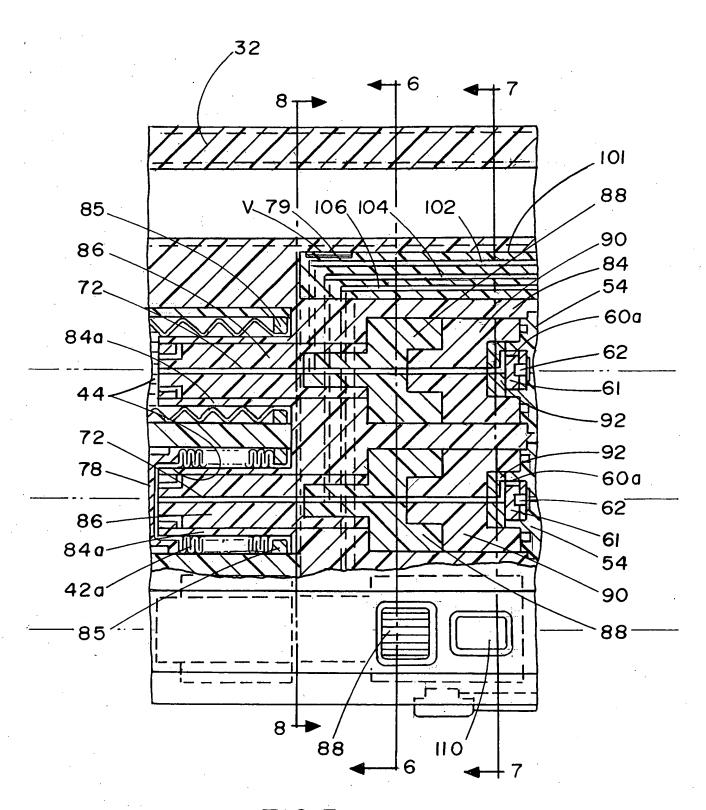


FIG.5B

Inventor: Kriesel, et al-Attorney: J. E. Brunton Serial No: 10/634487... Attmy Docket: 003-28 Sheet: 6 of 42

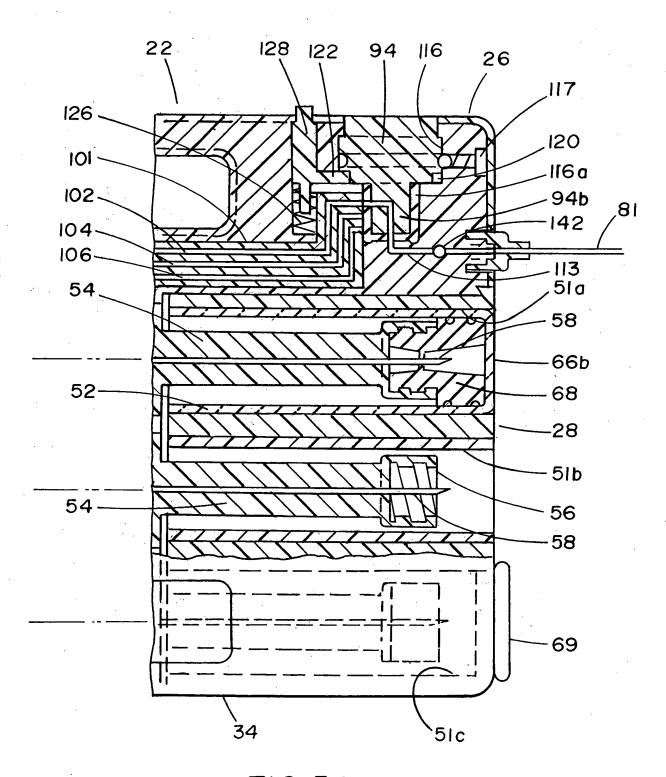
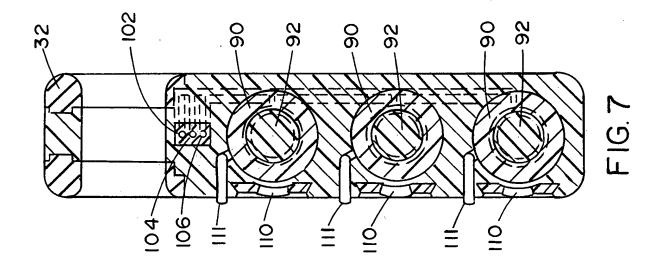
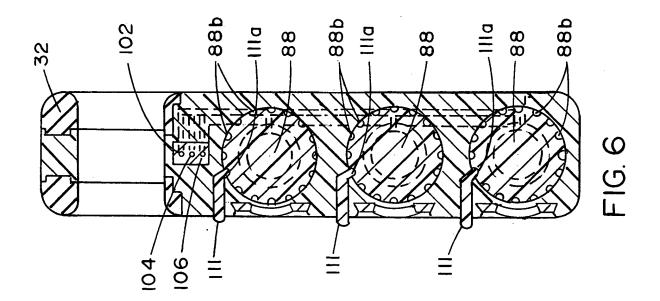


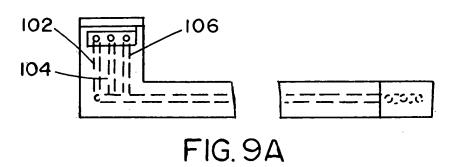
FIG. 5C

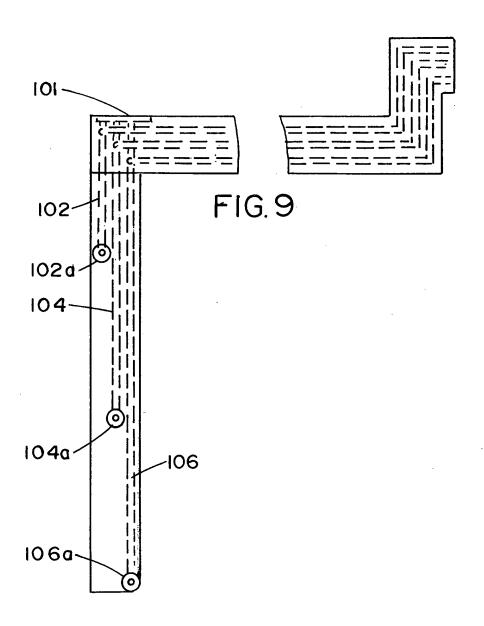
Inventor: Kriesel, et al Attorney: L.E.Brunton. Serial No: 10/634487 Attrny Docket: 003-28. Sheet: 7 of 42





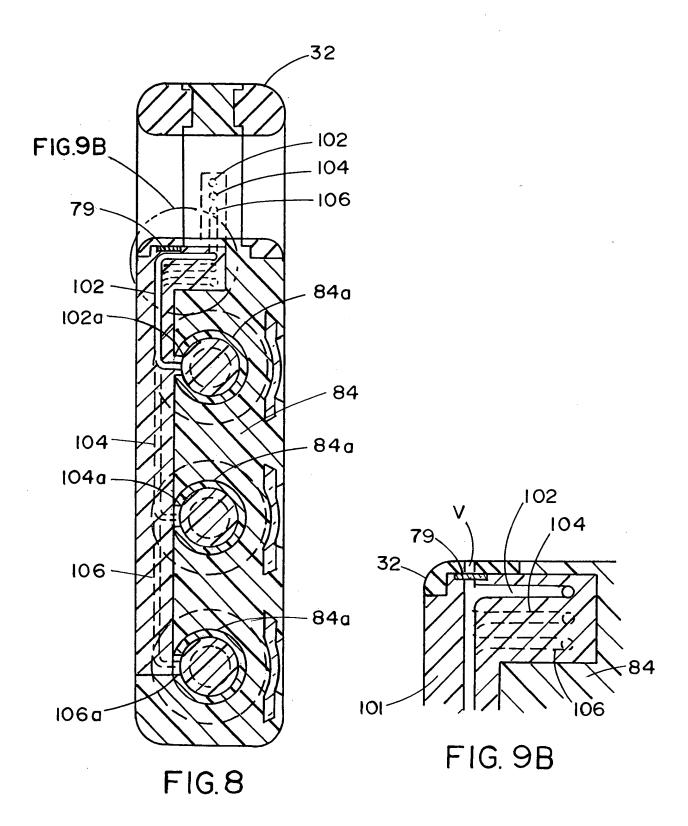
Inventor: Kriesel, et al Attorney: J. E. Brunton. Serial No: 10/634487 Attrny Docket: 003-28... Sheet: 9 of 42



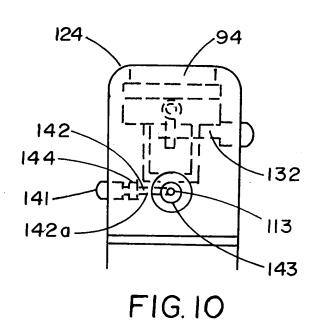


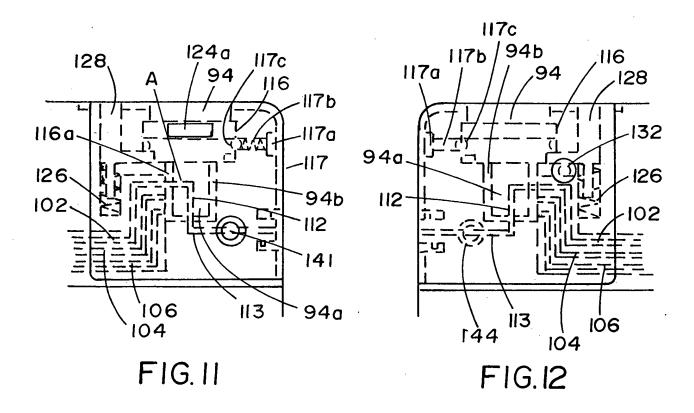
Inventor: Kriesel, et al. Attorney: J. E. Brunton Serial No: 10/634487. Attrny Docket: 003-28 Sheet: 8 of 42

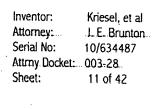




Inventor: Kriesel, et al. Attorney: J. E. Brunton Serial No: 1.0/634487. Attrny Docket: 003-28 Sheet: 10 of 42







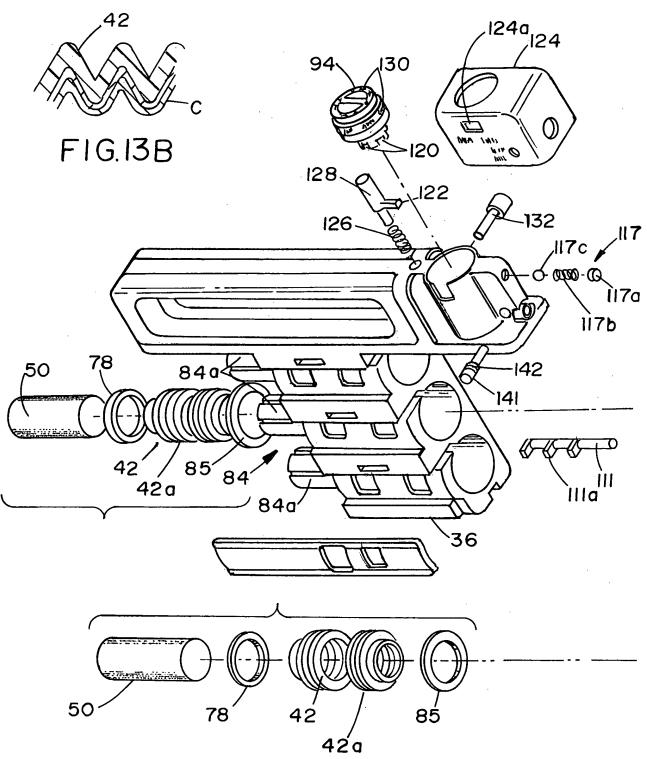
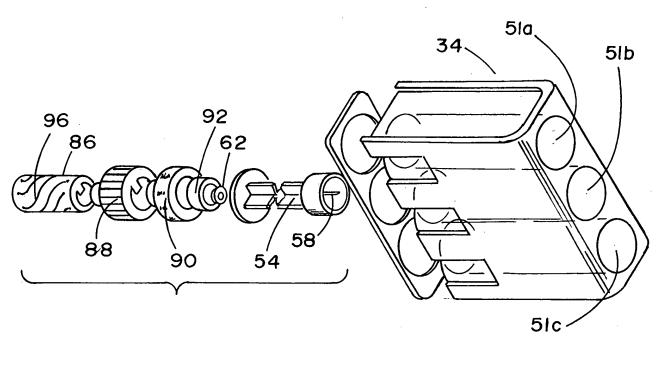


FIG. 13

Inventor: Kriesel, et al-Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 12-of-42



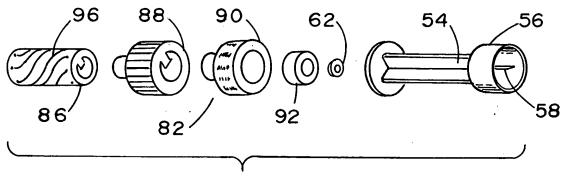
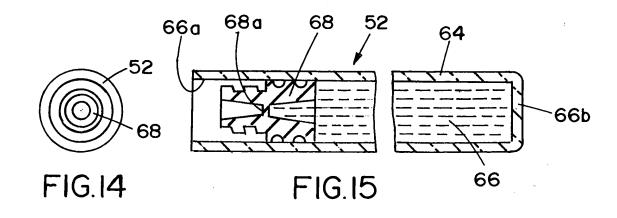
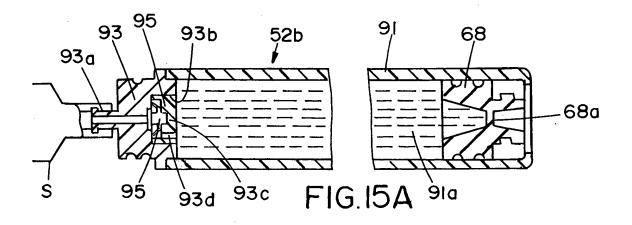


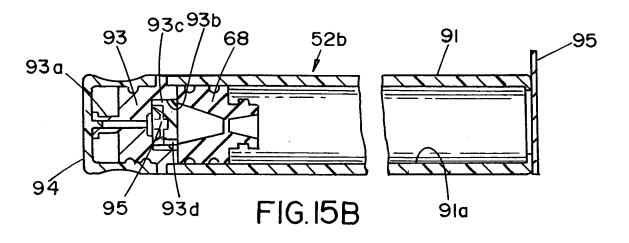
FIG. 13A

Inventor: Kriesel, et al Attorney: Serial No: I.E. Brunton. 10/634487 Attrny Docket: 003-28

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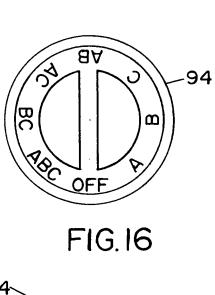


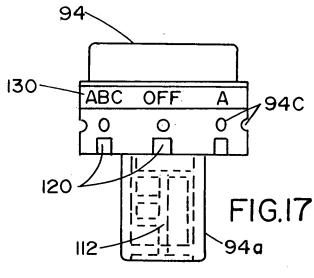


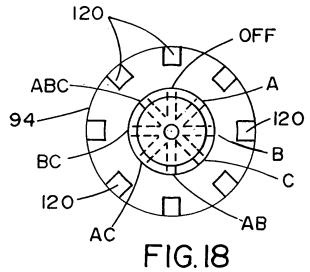


Inventor: Kriesel, et al.
Attorney: J. E. Brunton
Serial No: 10/634487
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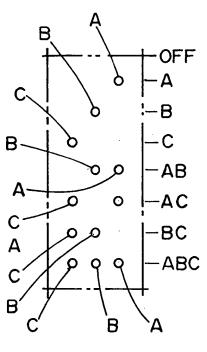
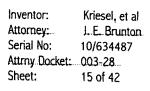
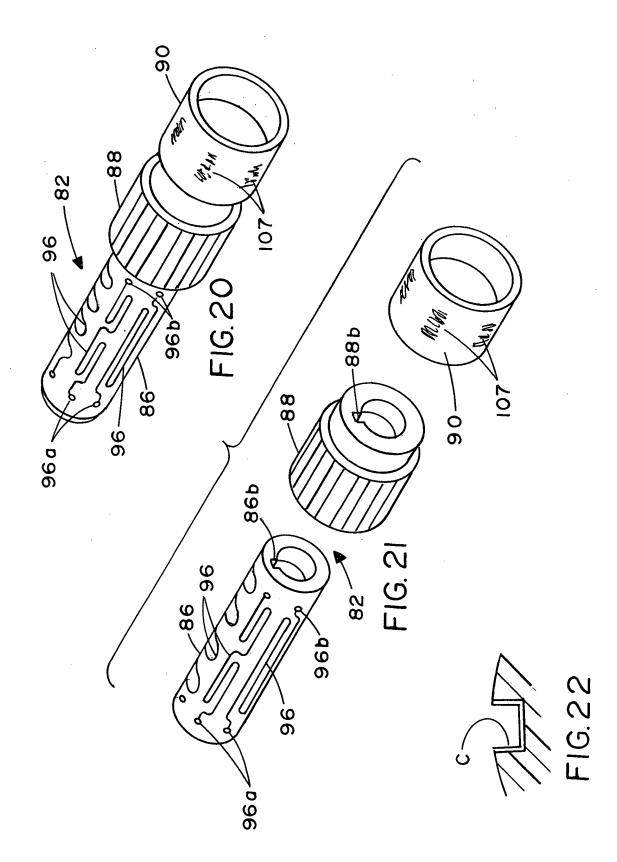
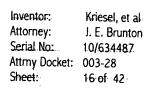
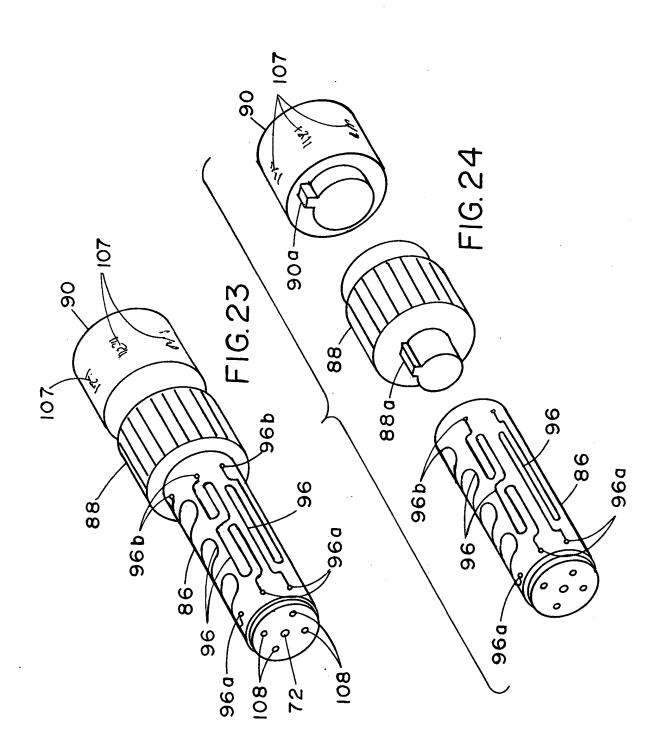


FIG.19



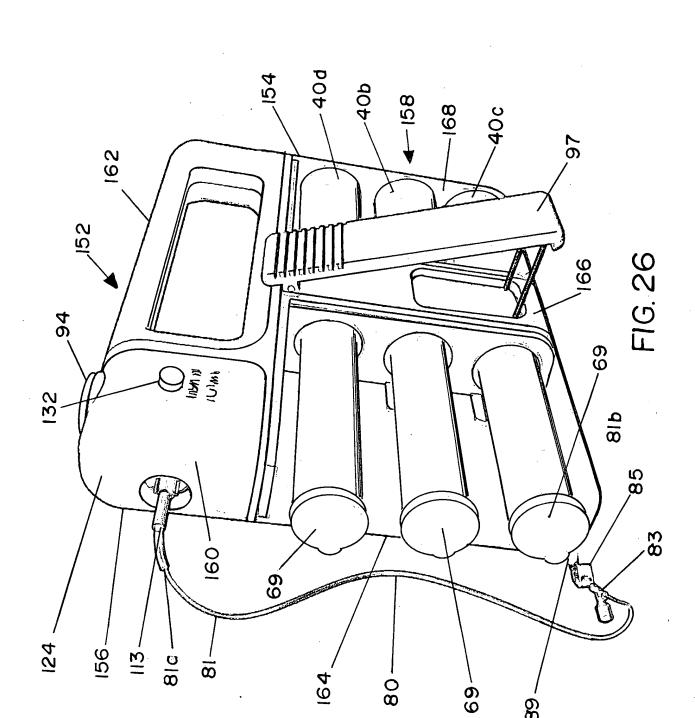






Inventor: Kriesel, et al Attorney: L.E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 17 of 42

Inventor: Kriesel, et al.
Attorney: J. E. Brunton
Serial No: 10/634487
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Inventor: Kriesel, et al Attorney: J. E. Brunton. Serial No: 10/634487 Attrny Docket: 003-28. Sheet: 19 of 42

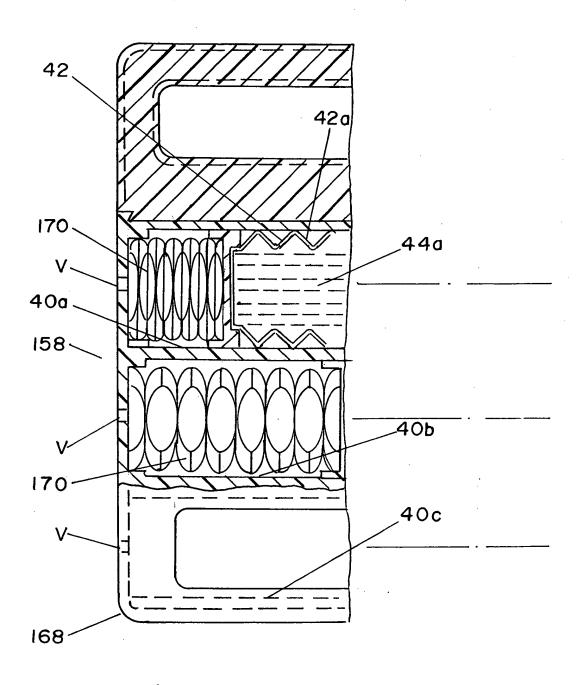


FIG.27A

Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 20 of 42

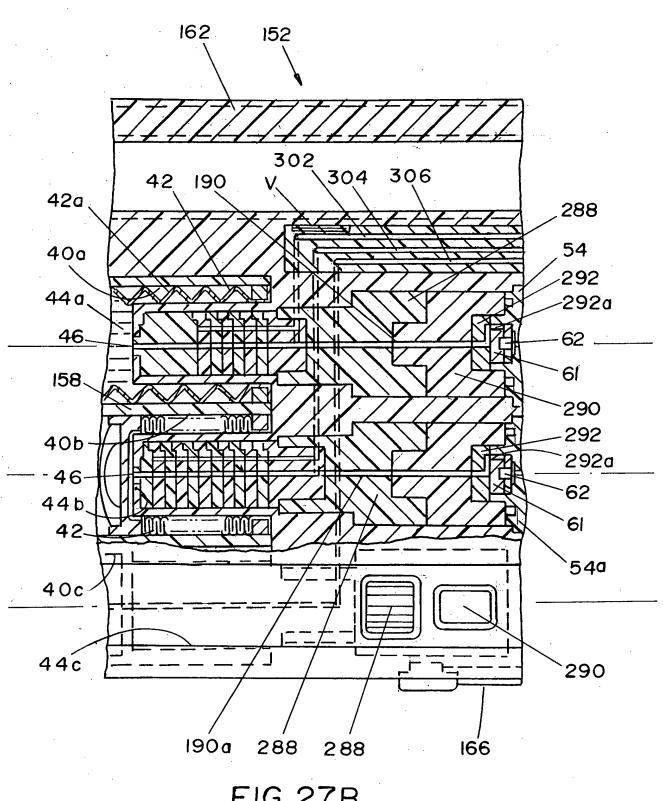
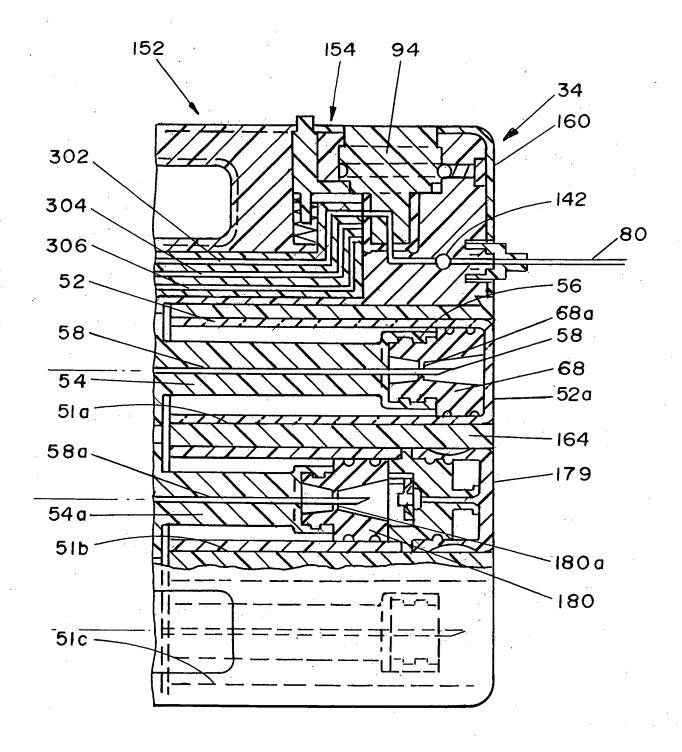


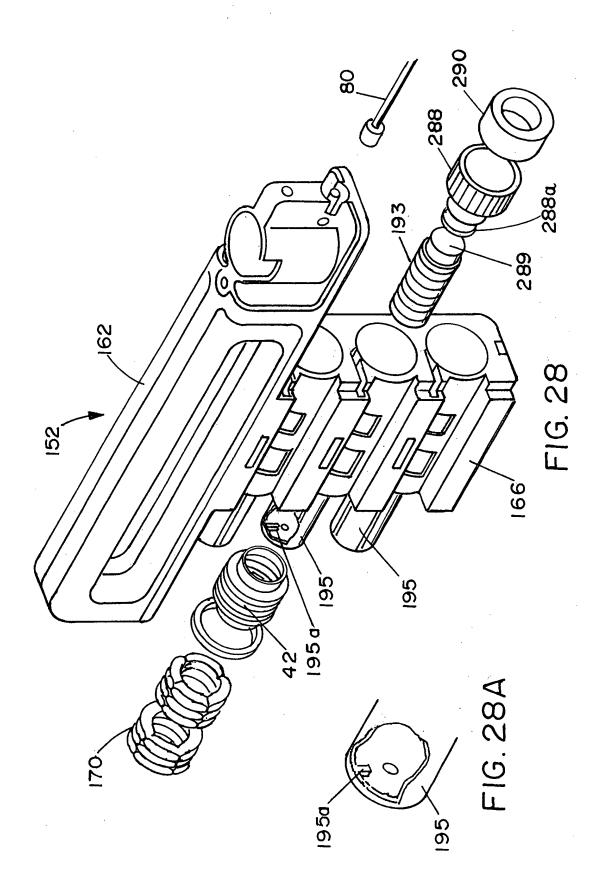
FIG. 27B

Inventor: Kriesel, et al Attorney: J.-E.-Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 21 of 42



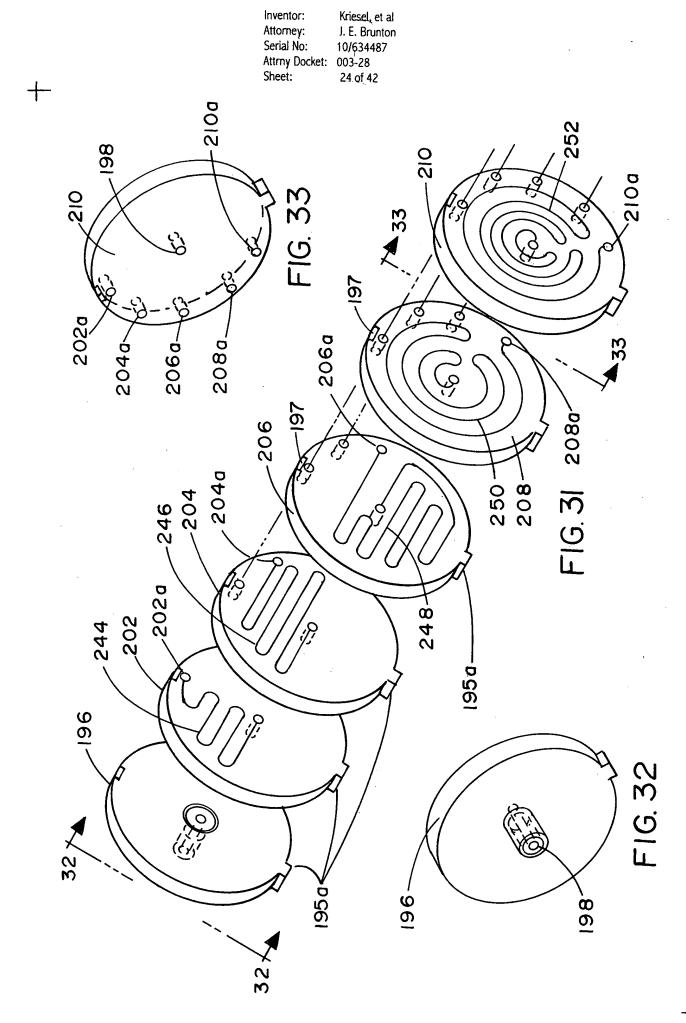
F1G. 27C

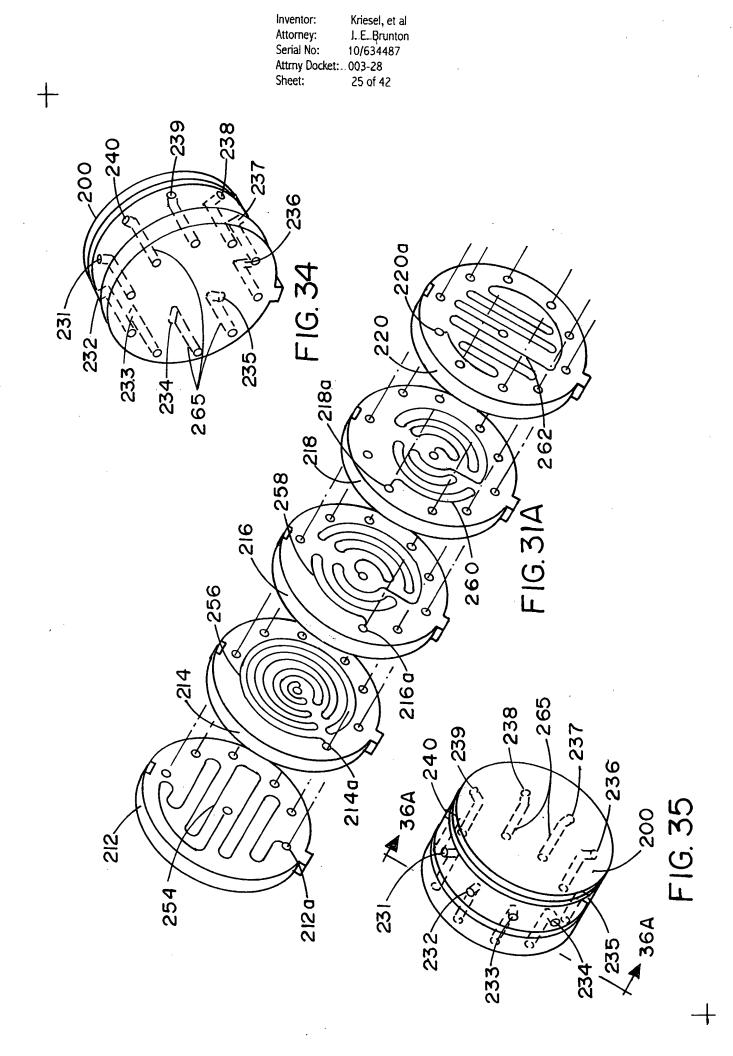
Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 22 of 42

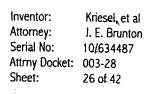


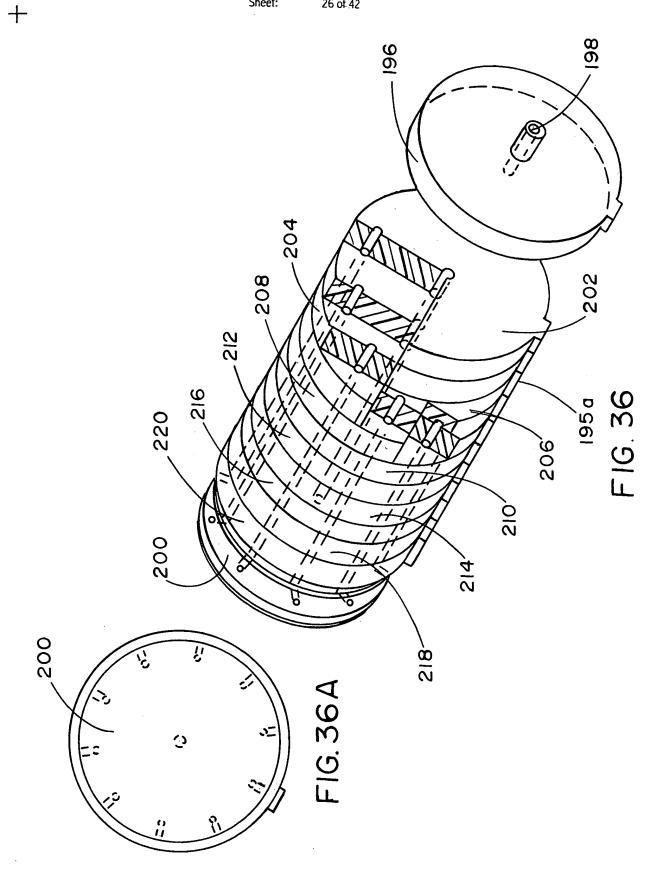
Inventor: Kriesel, et al Attorney: I.E.Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 23 of 42

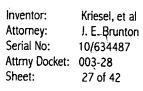
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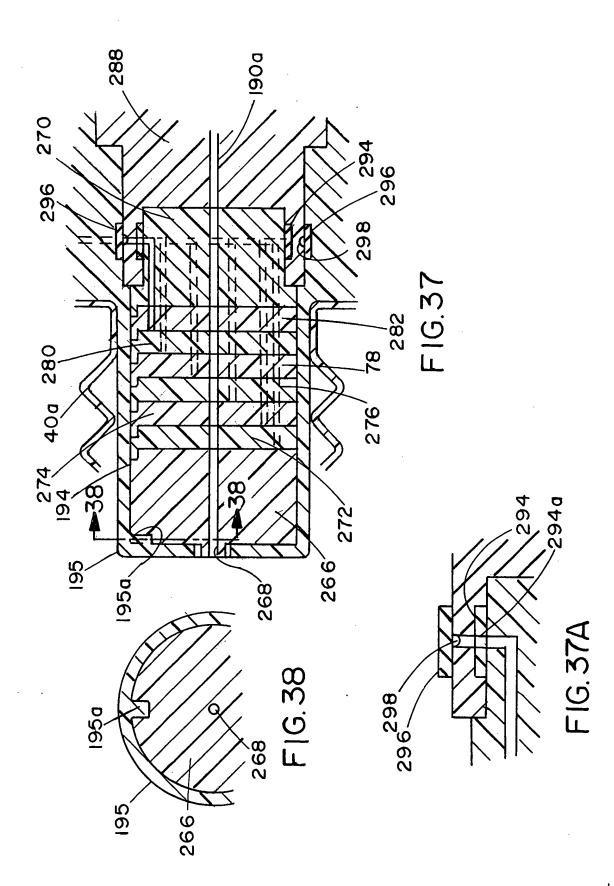




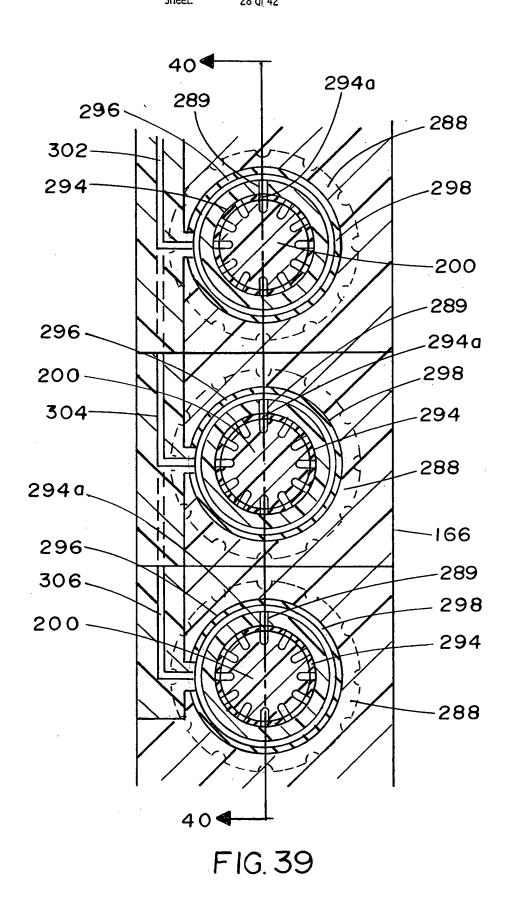








Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 28 of 42



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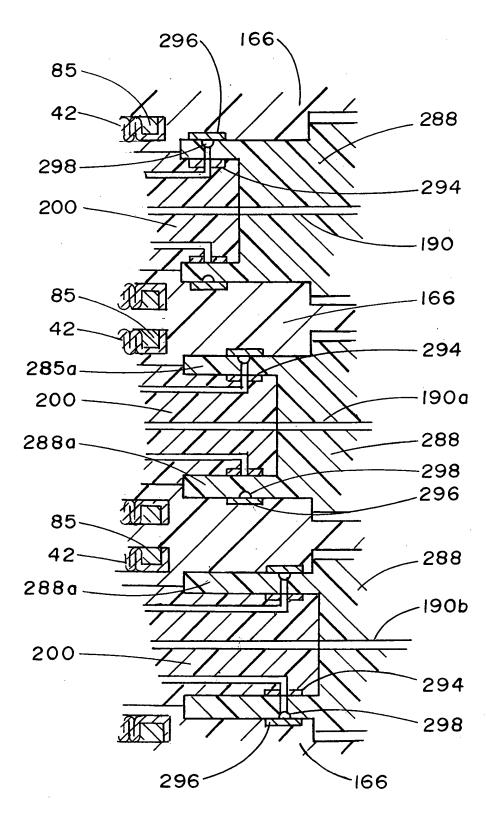
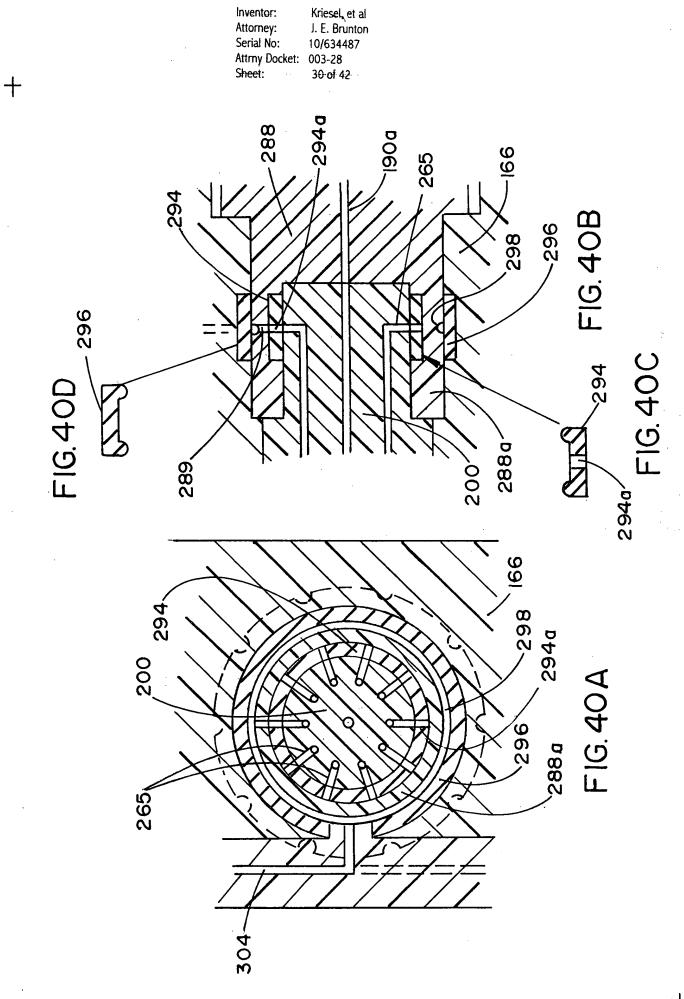


FIG. 40



Kriesel, et al J. E. Brunton

Inventor: Attorney: Serial No:

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A CONFIG.	COMPRESSION SPRING	
B CONFIG.	CONICAL COMP SPRING	
C CONFIG.	CONCAVE	
D CONFIG.	CONVEX	
E	SPRING IN A SPRING CONFIG.	

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				,
				SAMES SAMES
MULTIWAVE COMP. SPRING	BELLEVILLE SPRING WASHER	BELLEVILLE WASHER (STACKED)	DISC-SPRING (INT. TOOTH)	DISC-SPRING (INT. TOOTH) STACKED
F CONFIG.	G CONFIG.	H CONFIG.	l CONFIG.	J CONFIG.

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01 12

K CONFIG.	DISC. SPRING EXTERNAL TOOTH		
L CONFIG.	DISC SPRING EXT TOOTH STACKED		
M CONFIG.	CLOVER SPRING WASHER		
N CONFIG.	CLOVER SPRING WASHER (STACKED)		& B

FIG. 41C

Inventor: Kriesel, et al.
Attorney: J. E. Brunton
Serial No: 10/634487
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FINGER SPRING WASHER O CONFIG.

F1G. 41D

4

Inventor: Attorney:

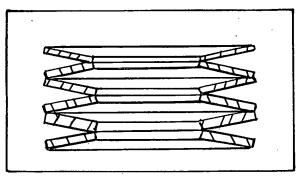
Kriesel, et al. J. E. Brunton 10/634487

Serial No: 10/6344 Attrny Docket: 003-28

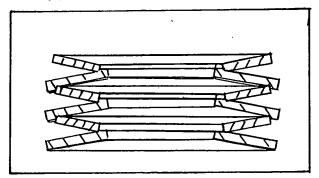
Sheet:

35.af.42....

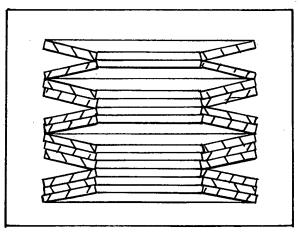
(A) DISC SPRING STACK CONSIST-ING OF DISC SPRINGS OF DIFFERENT THIKNESSES.



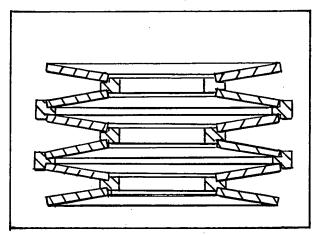
(D) GUIDING BY CYLINDRICAL "SHOULDERS" AT THE INSIDE & OUTSIDE DIA'S.



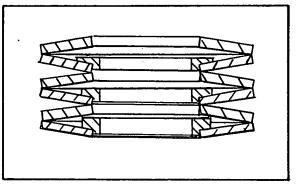
(B) DISC SPRING STACKS OF PARA-LLEL COMPONENTS OF DIFFERENT NUMBERS OF DISC SPRINGS ARRANGED IN SERIES.



(E) GUIDING BY MEANS OF INTER - MEDIATE RINGS.



(C) DISC SPRING STACKS WITH DE-FLECTION LIMITING RINGS OF DIFFERENT THICKNESSES



(F) GUIDING BY BALLS OR WIRE RINGS.

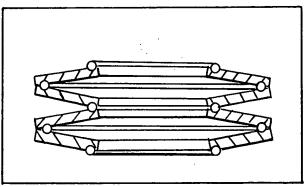
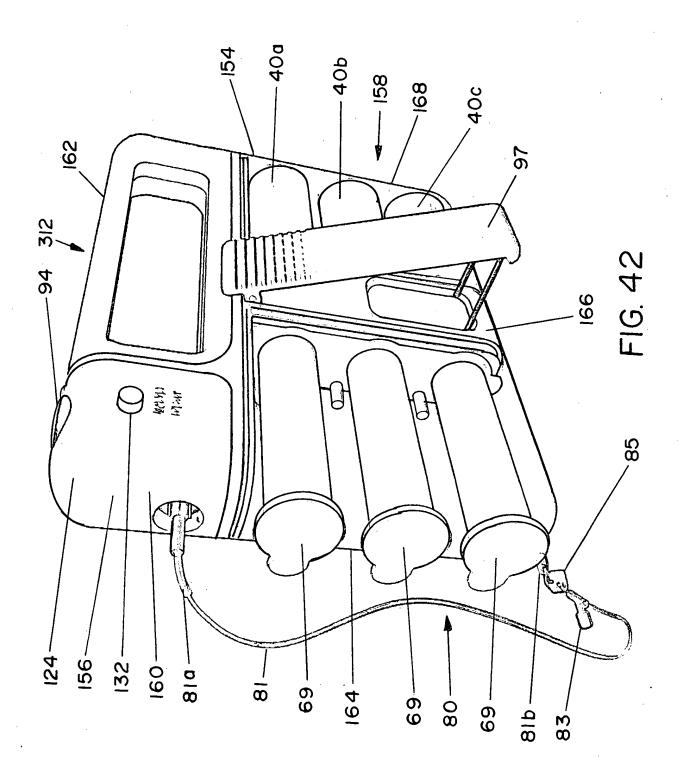
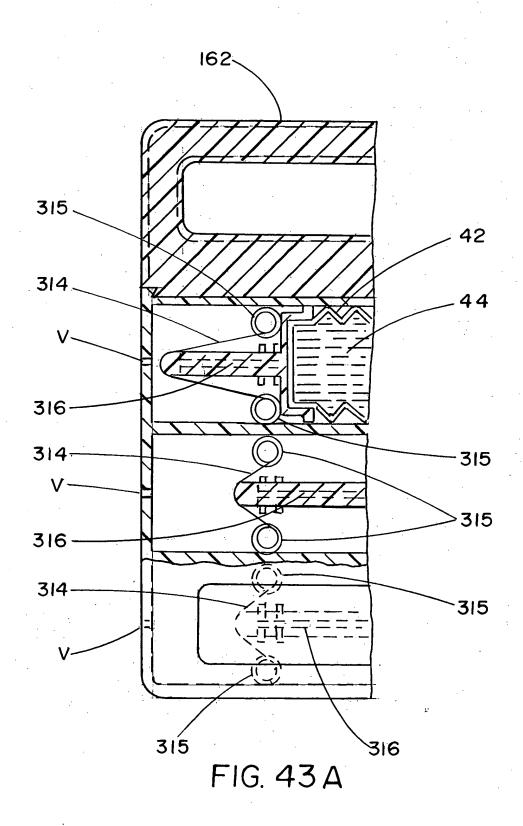


FIG. 41E

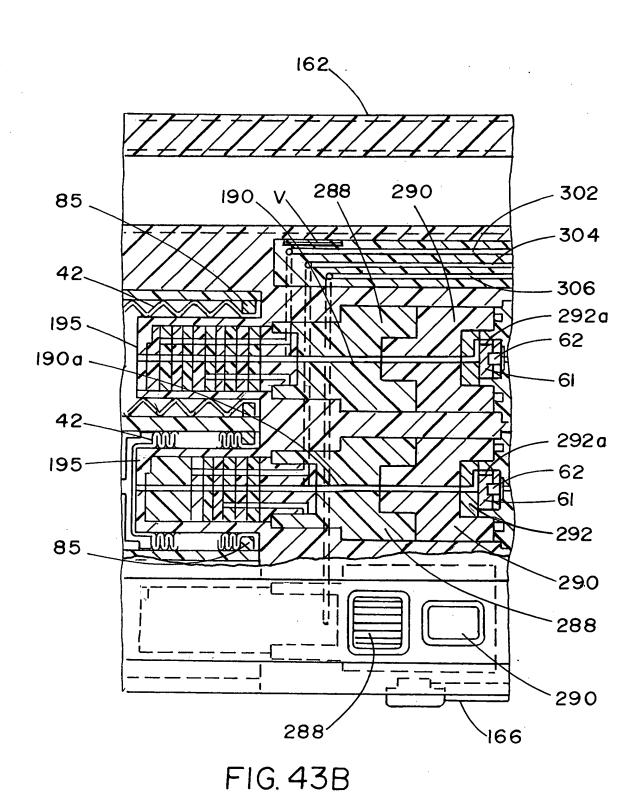
Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 36.of 42



Inventor: Kriesel, et al
Attorney: I. E. Brunton
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Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 38 of 42



Kriesel, et al Inventor: J. E. Brunton 10/634487 Attorney: Serial No: Attrny Docket: ...003-28

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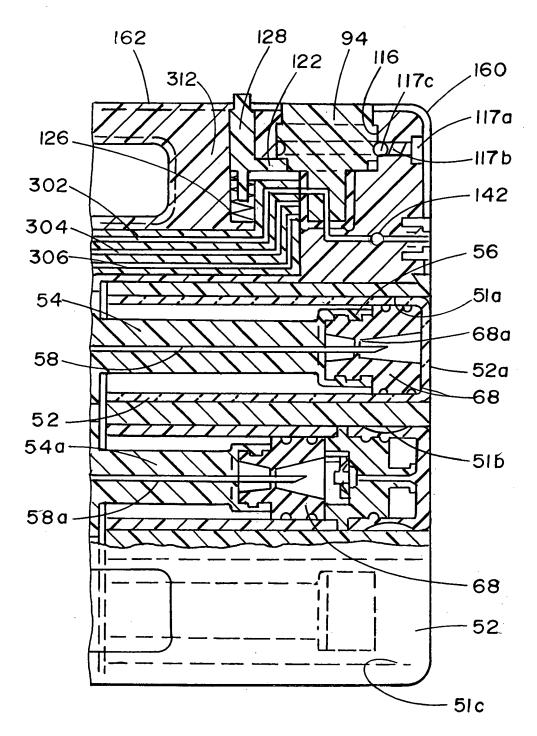
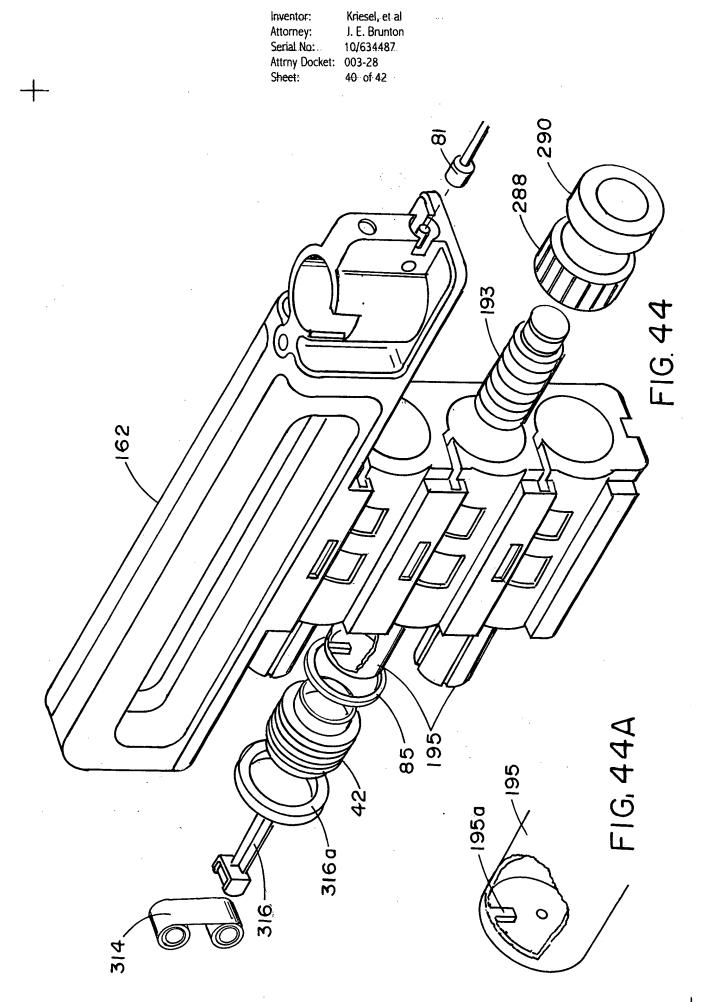
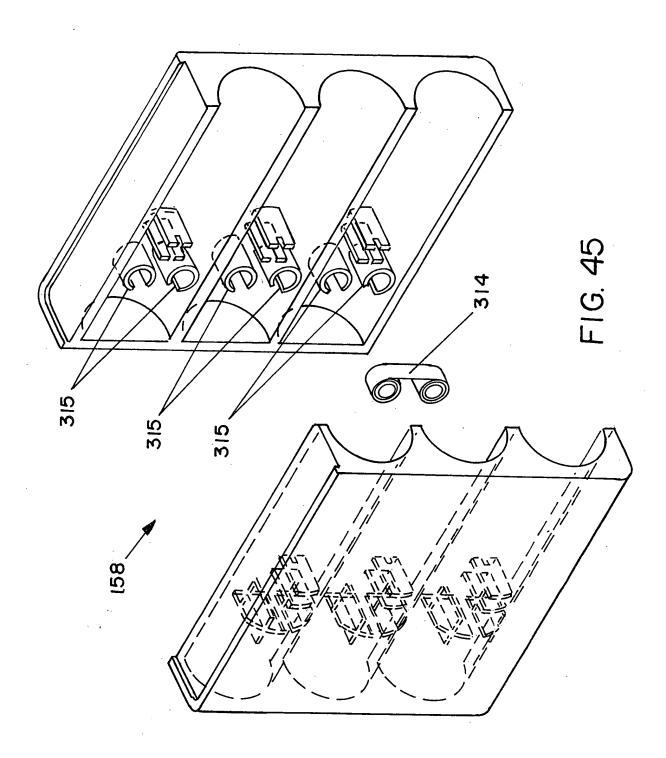


FIG. 43C



Inventor: Kriesel, et al. Attorney: J. E. Brunton Serial No: 10/634487. Attrny Docket: 003-28 Sheet: 41 of 42



Inventor: Kriesel, et al Attorney: J. E. Brunton Serial No: 10/634487 Attrny Docket: 003-28 Sheet: 42 of 42

